$$2^{\ell} \text{ choices } \square \subset \boxdot \subset \underset{\text{frame}}{\overset{\text{simple}}{\blacksquare}} \subset {}_{\square}\overset{\ddagger}{\underline{K}}{}^{\mathbb{C}} \text{ pos : } \quad |\blacksquare| = \ell$$

$$0 = {}_{\blacksquare}\underline{K}^{\mathbb{C}} \sqsubset {}_{\square}\underline{K}^{\mathbb{C}} = \frac{\flat \in {}_{\square}\underline{K}^{\mathbb{C}}}{\flat |\, \boxdot = 0} \sqsubset {}_{\square}\underline{K}^{\mathbb{C}} \text{ subtorus}$$

$${}_{\boxdot}\overset{\top}{\underline{K}}{}^{\mathbb{C}} = {}_{\square}\underline{K}^{\mathbb{C}} \times {}_{\boxdot}\overset{\hourglass}{\underline{K}}{}^{\mathbb{C}}$$

$${}_{\boxdot}\overset{\hourglass}{\underline{K}}{}^{\mathbb{C}} = \frac{{}_{\square}\overset{\urcorner}{\underline{K}}{}^{\mathbb{C}} \sqsubset \underline{K}^{\mathbb{C}}}{{}_{\square}\overset{\ddagger}{\underline{K}}{}^{\mathbb{C}} \ni \urcorner \in <\boxdot>} = {}_{\boxdot}\overset{\times}{\underline{K}}{}^{\mathbb{C}} \times {}_{\boxdot}\overset{\hourglass}{\underline{K}}{}^{\mathbb{C}}$$

$${}^{\P}_{\boxdot}\overset{\top}{\underline{K}}{}^{\mathbb{C}} = {}^{\P}_{\boxdot}\overset{\hourglass}{\underline{K}}{}^{\mathbb{C}}$$

$${}^{\P}_{\boxdot}\overset{\hourglass}{\underline{K}}{}^{\mathbb{C}} = \frac{{}^{\P}_{\square}\overset{\urcorner}{\underline{K}}{}^{\mathbb{C}} \sqsubset {}^{\P}\underline{K}^{\mathbb{C}}}{{}_{\square}\overset{\ddagger}{\underline{K}}{}^{\mathbb{C}} \ni \urcorner \in <\boxdot>} = {}^{\P}_{\boxdot}\overset{\times}{\underline{K}}{}^{\mathbb{C}} \times {}^{\P}_{\boxdot}\overset{\hourglass}{\underline{K}}{}^{\mathbb{C}}$$

$${}^{\mathbb{R}}_{\boxdot}\overset{\top}{\underline{K}}{}^{\mathbb{C}} = {}_{\boxdot}\overset{\top}{\underline{K}}{}^{\mathbb{C}} \times {}^{\P}_{\boxdot}\overset{\top}{\underline{K}}{}^{\mathbb{C}} = {}_{\boxdot}\overset{\top}{\underline{K}}{}^{\mathbb{C}} \times {}^{\P}_{\boxdot}\overset{\hourglass}{\underline{K}}{}^{\mathbb{C}}$$

$$= {}_{\square}\underline{K}^{\mathbb{C}} \times \overbrace{{}_{\boxdot}\overset{\hourglass}{\underline{K}}{}^{\mathbb{C}} \times {}^{\P}_{\boxdot}\overset{\hourglass}{\underline{K}}{}^{\mathbb{C}}}^{{}^{\mathbb{R}}_{\boxdot}\overset{\hourglass}{\underline{K}}{}^{\mathbb{C}}}$$

$${}^{\mathbb{R}}_{\boxdot}\overset{\hourglass}{\underline{K}}{}^{\mathbb{C}} = \frac{{}^{\mathbb{R}}_{\square}\overset{\urcorner}{\underline{K}}{}^{\mathbb{C}}}{{}_{\square}\overset{\ddagger}{\underline{K}}{}^{\mathbb{C}} \ni \urcorner \in <\boxdot>} = {}^{\mathbb{R}}_{\boxdot}\overset{\times}{\underline{K}}{}^{\mathbb{C}} \times {}^{\mathbb{R}}_{\boxdot}\overset{\hourglass}{\underline{K}}{}^{\mathbb{C}}$$

$$\underline{K}^{\mathbb{C}} = {}_{\boxdot}\overset{\top}{\underline{K}}^{\mathbb{C}} \times {}_{\boxdot}\overset{\bowtie}{\underline{K}}^{\mathbb{C}} = \overbrace{{}_{\boxdot}\overset{\top}{\underline{K}}^{\mathbb{C}} \times {}_{\boxdot}\overset{\ltimes}{\underline{K}}^{\mathbb{C}}}^{= {}_{\boxdot}\overset{\ltimes}{\underline{K}}^{\mathbb{C}}} \times {}_{\boxdot}\overset{\rtimes}{\underline{K}}^{\mathbb{C}}$$

$$= {}_{\square}\underline{K}^{\mathbb{C}} \times \overbrace{{}_{\boxdot}\overset{\text{⧖}}{\underline{K}}^{\mathbb{C}} \times {}_{\boxdot}\overset{\bowtie}{\underline{K}}^{\mathbb{C}}}^{{}_{\square}\overset{\bowtie}{\underline{K}}^{\mathbb{C}}}$$

$${}_{\boxdot}\overset{\bowtie}{\underline{K}}^{\mathbb{C}} = \frac{{}^{\mathbb{R}}_{\square}\overset{\text{⚑}}{\underline{K}}^{\mathbb{C}} \sqsubset \underline{K}^{\mathbb{C}}}{<\boxdot> \not\ni \text{⚑} \in {}^{\mathbb{R}}_{\square}\overset{\ddagger}{\underline{K}}^{\mathbb{C}}} = {}_{\boxdot}\overset{\rtimes}{\underline{K}}^{\mathbb{C}} \times {}_{\boxdot}\overset{\ltimes}{\underline{K}}^{\mathbb{C}}$$

$${}^{\P}\underline{K}^{\mathbb{C}} = {}^{\P}_{\boxdot}\overset{\top}{\underline{K}}^{\mathbb{C}} \times {}^{\P}_{\boxdot}\overset{\bowtie}{\underline{K}}^{\mathbb{C}}$$

$$= \overbrace{{}^{\P}_{\boxdot}\overset{\text{⧖}}{\underline{K}}^{\mathbb{C}} \times {}^{\P}_{\boxdot}\overset{\bowtie}{\underline{K}}^{\mathbb{C}}}^{{}^{\P}_{\square}\overset{\bowtie}{\underline{K}}^{\mathbb{C}}}$$

$${}^{\P}_{\boxdot}\overset{\bowtie}{\underline{K}}^{\mathbb{C}} = \frac{{}^{\mathbb{R}}_{\square}\overset{\text{⚑}}{\underline{K}}^{\mathbb{C}} \sqsubset {}^{\P}\underline{K}^{\mathbb{C}}}{<\boxdot> \not\ni \text{⚑} \in {}^{\mathbb{R}}_{\square}\overset{\ddagger}{\underline{K}}^{\mathbb{C}}} = {}^{\P}_{\boxdot}\overset{\rtimes}{\underline{K}}^{\mathbb{C}} \times {}^{\P}_{\boxdot}\overset{\ltimes}{\underline{K}}^{\mathbb{C}}$$

$$ {}^{\mathbb{R}}\underline{K}^{\mathbb{C}} = {}^{\mathbb{R}}_{\boxdot}\overset{\top}{\underline{K}}^{\mathbb{C}} \times \overbrace{{}_{\boxdot}\overset{\bowtie}{\underline{K}}^{\mathbb{C}} \times {}^{\P}_{\boxdot}\overset{\bowtie}{\underline{K}}^{\mathbb{C}}}^{{}^{\mathbb{R}}_{\boxdot}\overset{\bowtie}{\underline{K}}^{\mathbb{C}}} = \overbrace{{}^{\mathbb{R}}_{\boxdot}\overset{\top}{\underline{K}}^{\mathbb{C}} \times {}^{\mathbb{R}}_{\boxdot}\overset{\ltimes}{\underline{K}}^{\mathbb{C}}}^{= {}^{\mathbb{R}}_{\boxdot}\overset{\ltimes}{\underline{K}}^{\mathbb{C}}} \times {}^{\mathbb{R}}_{\boxdot}\overset{\rtimes}{\underline{K}}^{\mathbb{C}} $$

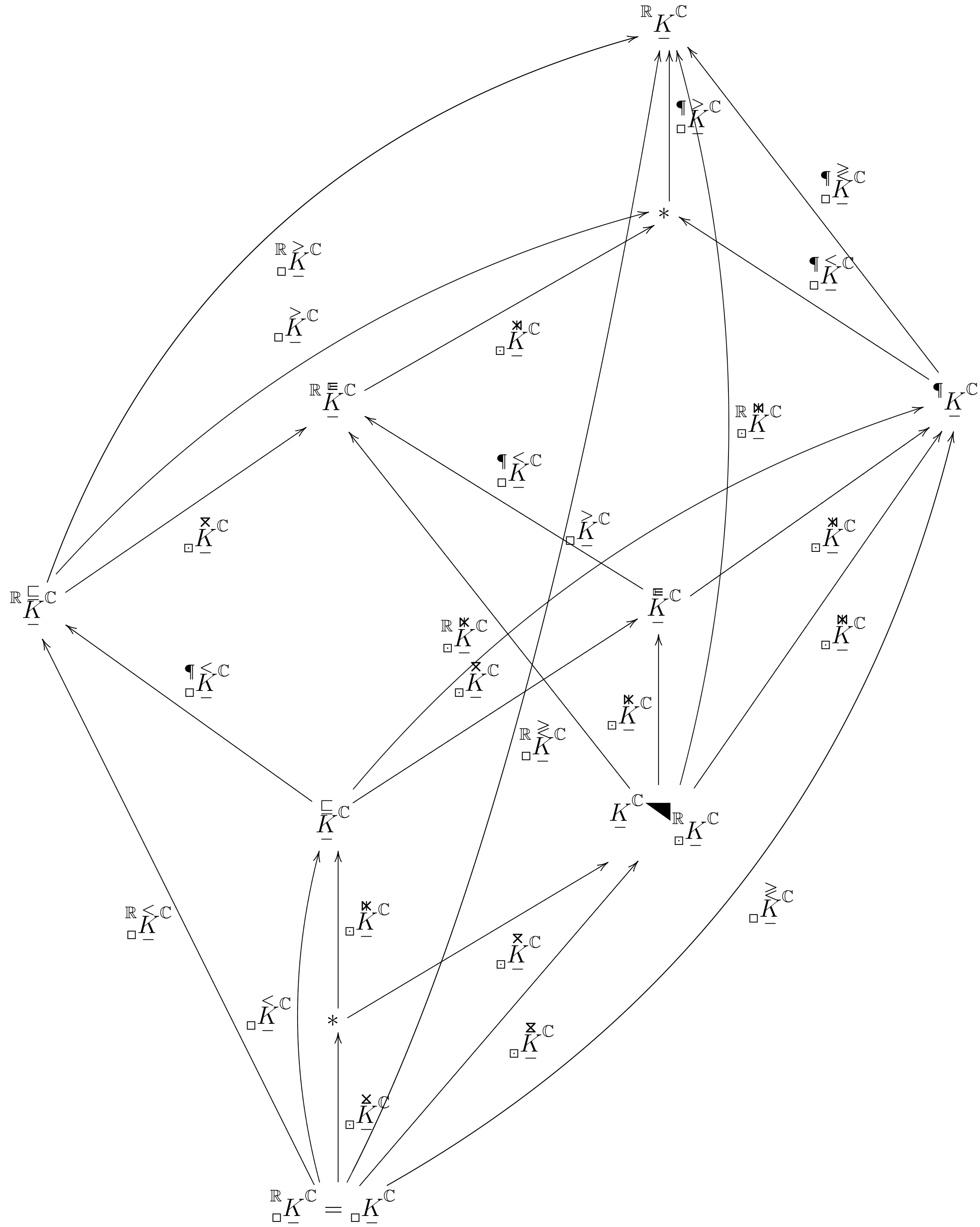
$$ = \overbrace{{}_{\boxdot}\overset{\top}{\underline{K}}^{\mathbb{C}} \times {}_{\boxdot}\overset{\bowtie}{\underline{K}}^{\mathbb{C}}}^{\underline{K}^{\mathbb{C}}} \times \overbrace{{}^{\P}_{\boxdot}\overset{\text{⧖}}{\underline{K}}^{\mathbb{C}} \times {}^{\P}_{\boxdot}\overset{\bowtie}{\underline{K}}^{\mathbb{C}}}^{{}^{\P}\underline{K}^{\mathbb{C}}} $$

$$ = {}_{\square}\underline{K}^{\mathbb{C}} \times \overbrace{\underbrace{{}_{\boxdot}\overset{\text{⧖}}{\underline{K}}^{\mathbb{C}} \times {}_{\boxdot}\overset{\bowtie}{\underline{K}}^{\mathbb{C}}}_{{}_{\square}\overset{\bowtie}{\underline{K}}^{\mathbb{C}}} \times \underbrace{{}^{\P}_{\boxdot}\overset{\text{⧖}}{\underline{K}}^{\mathbb{C}} \times {}^{\P}_{\boxdot}\overset{\bowtie}{\underline{K}}^{\mathbb{C}}}_{{}^{\P}_{\square}\overset{\bowtie}{\underline{K}}^{\mathbb{C}}} = \underbrace{{}_{\boxdot}\overset{\text{⧖}}{\underline{K}}^{\mathbb{C}} \times {}^{\P}_{\boxdot}\overset{\text{⧖}}{\underline{K}}^{\mathbb{C}}}_{{}^{\mathbb{R}}_{\boxdot}\overset{\text{⧖}}{\underline{K}}^{\mathbb{C}}} \times \underbrace{{}_{\boxdot}\overset{\bowtie}{\underline{K}}^{\mathbb{C}} \times {}^{\P}_{\boxdot}\overset{\bowtie}{\underline{K}}^{\mathbb{C}}}_{{}^{\mathbb{R}}_{\boxdot}\overset{\bowtie}{\underline{K}}^{\mathbb{C}}}}^{{}^{\mathbb{R}}_{\square}\overset{\bowtie}{\underline{K}}^{\mathbb{C}}} $$

$$ {}^{\mathbb{R}}_{\boxdot}\overset{\bowtie}{\underline{K}}^{\mathbb{C}} = \frac{{}^{\mathbb{R}}_{\square}\overset{\blacktriangleleft}{\underline{K}}^{\mathbb{C}}}{<\boxdot> \not\ni \blacktriangleleft \in {}^{\mathbb{R}}_{\square}\overset{\ddagger}{\underline{K}}^{\mathbb{C}}} = {}^{\mathbb{R}}_{\boxdot}\overset{\ltimes}{\underline{K}}^{\mathbb{C}} \times {}^{\mathbb{R}}_{\boxdot}\overset{\rtimes}{\underline{K}}^{\mathbb{C}} $$

$$ {}_{\boxdot}\overset{\underline{\times}}{\underline{K}}^{\mathbb{C}} \times {}^{\mathbb{R}}_{\boxdot}\overset{\ltimes}{\underline{K}}^{\mathbb{C}} = {}^{\mathbb{R}}_{\square}\overset{\ltimes}{\underline{K}}^{\mathbb{C}} : \quad {}_{\boxdot}\overset{\text{⧗}}{\underline{K}}^{\mathbb{C}} \times {}^{\mathbb{R}}_{\boxdot}\overset{\rtimes}{\underline{K}}^{\mathbb{C}} = {}^{\mathbb{R}}_{\square}\overset{\rtimes}{\underline{K}}^{\mathbb{C}} $$

$$ {}^{\mathbb{R}}K^{\mathbb{C}} \sqsupset \begin{cases} {}^{\mathbb{R}}_{\boxdot}\overset{<}{K}^{\mathbb{C}} \\ {}^{\mathbb{R}}_{\boxdot}\overset{=}{K}^{\mathbb{C}} \\ {}^{\mathbb{R}}_{\boxdot}\overset{>}{K}^{\mathbb{C}} \end{cases} = \begin{cases} {}^{\mathbb{R}}_{\boxdot}\overset{\leqslant}{K}^{\mathbb{C}} \\ {}^{\mathbb{R}}_{\boxdot}\overset{>}{K}^{\mathbb{C}} \end{cases} $$



$$\prescript{\mathbb{R}}{\boxdot}{\underline{\overset{>}{K}}}^{\mathbb{C}} = \frac{\prescript{\mathbb{R}}{}{\underline{K}}^{\mathbb{C}}_{\mathsf{4}}}{<\boxdot> \not\ni \mathsf{4} \in \prescript{}{>}{\underline{\bar{\mathbb{h}}}}^{\mathbb{C}}} \text{ nilp rad}$$

$$\prescript{\mathbb{R}}{\boxdot}{\underline{\overset{\leqslant}{K}}}^{\mathbb{C}} = \prescript{\mathbb{R}}{\boxdot}{\underline{\overset{<}{K}}}^{\mathbb{C}} \times \prescript{\mathbb{R}}{\boxdot}{\underline{\overset{=}{K}}}^{\mathbb{C}}$$

$$\begin{array}{ccccc}
\prescript{\mathbb{R}}{}{\overset{\leqslant}{K}}^{\mathbb{C}} \neg \prescript{\mathbb{R}}{}{K}^{\mathbb{C}} = \prescript{\mathbb{R}}{}{K} \neg \mathbb{h}^{\mathbb{I}} & \longrightarrow & \prescript{\mathbb{R}}{}{K} \neg \prescript{\mathbb{R}}{}{K} & & \\
\downarrow\uparrow & & \downarrow\uparrow & \searrow & \\
 & & & & 1 \\
 & & & \nearrow & \\
\prescript{\mathbb{R}}{\boxdot}{\overset{\leqslant}{K}}^{\mathbb{C}} \neg \prescript{\mathbb{R}}{}{K}^{\mathbb{C}} = \left(\prescript{\mathbb{R}}{\boxdot}{\overset{\leqslant}{K}}^{\mathbb{C}} \cap \mathbb{h}^{\mathbb{I}}\right) \neg \mathbb{h}^{\mathbb{I}} & \longrightarrow & \left(\prescript{\mathbb{R}}{\boxdot}{\overset{\leqslant}{K}}^{\mathbb{C}} \cap \prescript{\mathbb{R}}{}{K}\right) \neg \prescript{\mathbb{R}}{}{K} & &
\end{array}$$

$$\underline{\left(\prescript{\mathbb{R}}{\boxdot}{\overset{\leqslant}{K}}^{\mathbb{C}} \cap \mathbb{h}^{\mathbb{K}}\right) \neg \mathbb{h}^{\mathbb{K}}} = \prescript{\mathbb{R}}{\boxdot}{\underline{\overset{>}{K}}}^{\mathbb{C}} \text{ centr of toral subgrp}$$